

AbstractMethods for Producing Members of  
Specific Binding Pairs

A member of a specific binding pair (sbp) is  
5 identified by expressing DNA encoding a genetically  
diverse population of such sbp members in recombinant  
host cells in which the sbp members are displayed in  
functional form at the surface of a secreted  
recombinant genetic display package (rgdp) containing  
10 DNA encoding the sbp member or a polypeptide  
component thereof, by virtue of the sbp member or a  
polypeptide component thereof being expressed as a  
fusion with a capsid component of the rgdp. The  
displayed sbps may be selected by affinity with a  
15 complementary sbp member, and the DNA recovered from  
selected rgdps for expression of the selected sbp  
members. Antibody sbp members may be thus obtained,  
with the different chains thereof expressed, one  
fused to the capsid component and the other in free  
20 form for association with the fusion partner  
polypeptide. A phagemid may be used as an expression  
vector, with said capsid fusion helping to package  
the phagemid DNA. Using this method libraries of DNA  
encoding respective chains of such multimeric sbp  
25 members may be combined, thereby obtaining a much  
greater genetic diversity in the sbp members than  
could easily be obtained by conventional methods.